

SEQUENCE LISTING

<110> Bayer HealthCare AG

<120> Diagnostics and Therapeutics for Diseases Associated with Arginyl
Aminopeptidase (Aminopeptidase B)-Like 1 (RNPEPL1)

<130> BHC 03 01 005

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 1981

<212> DNA

<213> Homo sapiens

<400> 1

```
tcctggatcat cgatgtcatc cactgaggtgg cccacagttg gttcggcaac gctgtcacca    60
acgccacgtg ggaagagatg tggctgagcg agggcctggc cactatgcc cagcgccgta    120
tcaccaccga aacctacggt gctgccttca cctgcctgga gactgccttc cgcctggacg    180
ccctgcaccg gcagatgaag cttctgggag aggacagccc ggtagcaaaa ctgcaggtca    240
agctggagcc aggagtgaat cccagccacc tgatgaacct gttcacctac gagaagggct    300
actgcttcgt gtactacctg tcccagctct gcggagaccc acagcgcttt gatgactttc    360
tccgagccta tgtggagaag tacaagttca ccagcgtggg ggcccaggac ctgctggact    420
ccttcctgag cttcttcccg gagctgaagg agcagagcgt ggactgccgg gcagggttgg    480
aatcgagcg ctgggtcaat gccacaggcc cgcgctggc tgagccggac ctgtctcagg    540
gatccagcct gacctggccc gtggaggccc ttttccagct gtggaccgca gaacctctgg    600
accaggcagc tgcctcggcc agcgccattg acatctccaa gtggaggacc ttccagacag    660
cactcttctt ggaccggctc ctggatgggt ccccgctgcc gcaggaggtg gtgatgagcc    720
tgtccaagtg ctactcctcc ctgctggact cgatgaacgc tgagatccgc atccgctggc    780
tgcagattga ggtccgcaac gactactatc ctgacctcca cagggtgcgg cgcttcttgg    840
agagccagat gtcacgcatg tacaccatcc cgctgtacga ggacctctgc accggtgccc    900
tcaagtcctt cgcgctggag gtcttctacc agacgcaggg ccggctgcac cccaacctgc    960
gcagagccat ccagcagatc ctgtcccagg gcctgggctc cagcacagag cccgcctcag   1020
agcccagcac ggagctgggc aaggctgaag cagacacaga ctcggaacga caggccctgc   1080
tgcttgggga cagggccccc agcagtgcc aactctctcag ggacgtcaat gtgtctgcct   1140
agccctgttg gcgggctgac cctcgacctc ccagacacca caattgtgcc ttctgtgggc   1200
caggcctgcc atgactgcgt ctcggtcttg gccatgagct ctgccaggc ccacaagccc   1260
ctcccctggg ctctcccagg cagggagaat ggggagaggg acctccttgt gtctggcaga   1320
gacctgtgga cctggcctcc cactcccag ctctcttgca ctgcaggccc tggggccagc   1380
ccgcacacac catgcctcct gtctcaacac tgacagctgt gcctagcccc ggatgccagc   1440
acctgccagg tgccgccccg gggcaagggc cccagcagcc ctatggtgac cggcacactg   1500
tgccctaatg tctgcggggg gccaggctg tgctgtccct gcagcacgcc tccttgcagg   1560
```

gatctgagcc accctccccg cacagccctg caccctcgccc ctgggggttgg cagcctcagt 1620
 tggcccctgg cagaggaaca aggacacaga cattccctca gtgtgggggg caggggacac 1680
 agggagagga tggttgtccc tggggagggc cctctggccc caggcaacct tagccctca 1740
 gaacagggag tcccaggacc caggagaggt gtggggacag gacagcctgt ctctttagc 1800
 ttcttggggt gggaggcaca ggggcaaagc aataccccag ggaaagtggg aggtggtgct 1860
 ggtgctctct ccaggcccac catgctggga gagggcgcca gagcctgggg cctccagcct 1920
 gggactgctg tgatggggta tcacggtgat ggtccatta aacttccact ctgcaaacct 1980
 g 1981

<210> 2
 <211> 354
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Trp Leu Ser Glu Gly Leu Ala Thr Tyr Ala Gln Arg Arg Ile Thr
 1 5 10 15
 Thr Glu Thr Tyr Gly Ala Ala Phe Thr Cys Leu Glu Thr Ala Phe Arg
 20 25 30
 Leu Asp Ala Leu His Arg Gln Met Lys Leu Leu Gly Glu Asp Ser Pro
 35 40 45
 Val Ser Lys Leu Gln Val Lys Leu Glu Pro Gly Val Asn Pro Ser His
 50 55 60
 Leu Met Asn Leu Phe Thr Tyr Glu Lys Gly Tyr Cys Phe Val Tyr Tyr
 65 70 75 80
 Leu Ser Gln Leu Cys Gly Asp Pro Gln Arg Phe Asp Asp Phe Leu Arg
 85 90 95
 Ala Tyr Val Glu Lys Tyr Lys Phe Thr Ser Val Val Ala Gln Asp Leu
 100 105 110
 Leu Asp Ser Phe Leu Ser Phe Phe Pro Glu Leu Lys Glu Gln Ser Val
 115 120 125
 Asp Cys Arg Ala Gly Leu Glu Phe Glu Arg Trp Leu Asn Ala Thr Gly
 130 135 140
 Pro Pro Leu Ala Glu Pro Asp Leu Ser Gln Gly Ser Ser Leu Thr Arg
 145 150 155 160
 Pro Val Glu Ala Leu Phe Gln Leu Trp Thr Ala Glu Pro Leu Asp Gln
 165 170 175
 Ala Ala Ala Ser Ala Ser Ala Ile Asp Ile Ser Lys Trp Arg Thr Phe
 180 185 190
 Gln Thr Ala Leu Phe Leu Asp Arg Leu Leu Asp Gly Ser Pro Leu Pro
 195 200 205
 Gln Glu Val Val Met Ser Leu Ser Lys Cys Tyr Ser Ser Leu Leu Asp
 210 215 220
 Ser Met Asn Ala Glu Ile Arg Ile Arg Trp Leu Gln Ile Glu Val Arg
 225 230 235 240

22

22

```
<210> 5
<211> 21
<212> DNA
<213> artificial sequence
```

<220>

<223> probe

<400> 5

ctccacaggg tgcggcgctt c